RATAY, Karel [Rataj Karel]; UMNOV, M.P. [translator]; GUNAR, I.I., red.; KLIMENKO, S.V., tekhn. red.

[Chemical control of weeds in flax] [Translated from the Czech]
Khimicheskaia bor'ba s sorniakami v posevakh l'na. Pod red. I.I.
Gunara. Moskva, Izd-vo inostr. lit-ry. 1958. 122 p. (MIRA 11:10)
(Weed control) (Flax)

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YEMEL'YANOVA, N.A. [translator]; LISOVSKAYA, O.V. [translator]; GUNAR, I.I., red.

[Chemical control of weeds] Khimicheskaia bor'ba s sorniakami. Fod red. i s predisl. I.I.Gunara. Moskva, Izd-vo inostr. lit-ry, 1959. 226 p. (MIRA 14:10)

1. British Weed Control Council. (Weed control) (Herbicides)

GUNAR, I.I.; SINYUKHIN, A.M.

Electrophysiological characteristics of irritability in plants. Report 1: Principles, history and methods of research.

Izv.TSKha no.4:7-22 '59. (MIRA 12:11)

(Electrophysiology of plants)

(Plants--Irritability and movements)

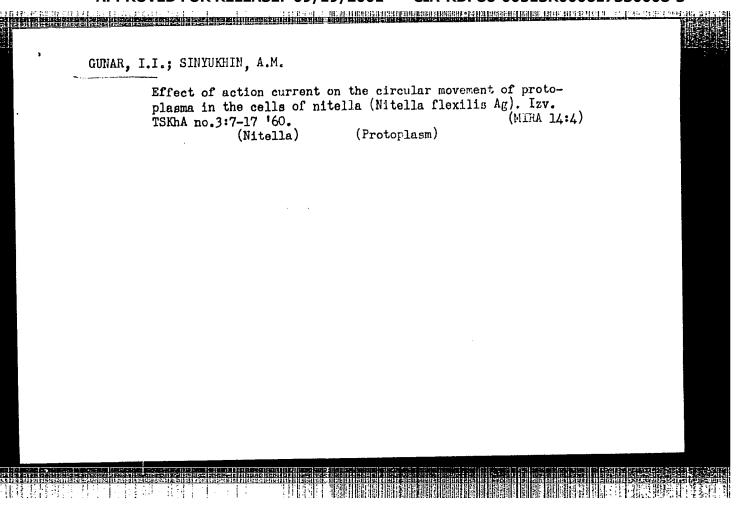
GUNAR, I.I.; KHASTINA, Ye, Ye.; PETROV-SPIRIDONOV, A.Ye.

How the proportion between potassium and calcium in the nutrient solution and in the plant affects the cold resistance of corn. Izv.

TSKhA no.5:19-28 '59 (NIKA 13:3)

(Corn (Maine)) (Planta, Effect of potassium on)

(Plants, Effect of calcium on)



GUNAR, I.I.; KRASTINA, Ye.Ye.; BHYUSHKOVA, K.A.; BELIKOVA, Ye.M.

Blurnal periodicity in the synthetic activity of roots. [with summary in English]. Izv. TSKha no.5:18-34 '60. (HIRA 13:11) (Roots (Botany))

GUNAR, I.I., prof.; KALINKEVICH, M.I., kand.biolog.nauk

Using chemicals for regulating the flowering and fruiting of apple trees. Izv. TSKhå no.1:22-41 '61. (MIRA 14:3) (Apple) (Gresol) (Phenols)

GUNAR, I.I.; SHATUKHIN, A.M.; SALMA, L.Ya.; TSAKEVA, L.A.

Electrophysiological characteristics of irritability in plants [with summery in English]. Izv. TSKAA no.2:7-19

161.

(Plants-Irritability and movements)

(Plants, Effect of electricity on)

GUNAR, I.I.; BOGACHEVA, I.I.

How the movement of kidney bean chloroplasts within a cycle of 24 hours is related to photosynthesis [with summary in English]. Izv. TSKhA no.2:215-220 '61. (MIRA 14:8) (Chlorophyll) (Photosynthesis)

GUNAR, I.I.; KRASTINA, Ye.Ye.

Effect of light-derkness balance or the rhythm of movements in plant leaves. Izv. TSKhA no.5:55-70 '61. (MIRA 14:12)

(Plants, Effect of light on)

KRASTINA, Ye.Ye.; GUNAR, I.I.; KASPSHIK, M.

Role of external and internal factors in the daily dynamics of root feeding in tomatoes. Izv. TSKhA no.6:32-42 '61.

(Tomatoes) (Plants—Nutrition)

(Plants, Effect of light on)

GUNAR, I.I., prof.; PETROV-SPIRIDONOV, A.Ye., starshiy nauchnyy sotrudnik.

Respiration and transformation of organic acids in the ontogenesis of soybeans [with summary in English]. Izv. TSKHA no.1:61-73 '62.

(NIRA 15:6)

(Plants---Rospiration)

(Acids, Organic)

KRASTINA, Ye.Ye., kand.biolog.nauk; GUNAR, I.I., prof.

Specific characteristics of the photoperiodic reaction of organisms to short and long days. Izv.TSKHA no.4:53-63 '62.

(Photoperiodism)

(Photoperiodism)

GUNAR, I., prof.

Life revolted against grassland farming. Nauka i zhizn' 29 no.5:2-10 My '62. (MIRA 15:11)

1. Zaveduyushchiy kafedroy fiziologii rasteniy Timiryazevskoy sel'skokhozyaystvennoy akademii.
(Agriculture)

GUNAR, I.I.; SINYUKHIN, A.M.

The propagating wave of excitation in higher plants. Dokl. AN SSSR 142 no.4:954-956 F '62. (MIRA 15:2)

l. Moskovskaya sel'skokhozyaystvennaya akademiya im.

K.A.Timiryazeva. Predstavleno akademikom A.L.Kursanovym.

(Electrophysiology of plants)

KRASTINA, Ye.Ye.; KOVRIGO, N.M.; GUNAR, I.I.

Connection of the photoperiodical reaction of Perilla and spring wheat with chronometric characteristics. Izv. TSKHA no.6:32-48 '62. (MIRA 16:6)

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GUNAR, I.I.; SINYUKHIN, A.M.

Functional significance of action currents affecting the proceed exchange of higher plants. Fiziol. rast. 10 no.3:265-274 My-Je '63. (MIRA 16:6)

1. Kafedra fiziologii rasteniy i laboratoriya iskusstvennogo klimata Moskovskoy sel'skokhozyaystvennoy akademii imeni Timiryazeva. (Electrophysiology of plants) (Plants—Respiration)

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ZHURBITSKIY, Z.I., otv. red.; GENKEL', F.A., red.; GUNAR, I.I., red.; POTAPOV, N.G., red.; KRASIL'NIKOVA, G.V., red.izd-va; GUS'KOVA, O.M., tekhn. red.

[Physiological basis for the plant nutrition system] Fizio-logicheskoe obosnovanie sistemy pitaniia rastenii. Moskva, Izd-vo "Nauka," 1964. 339 p. (MIRA 17:3)

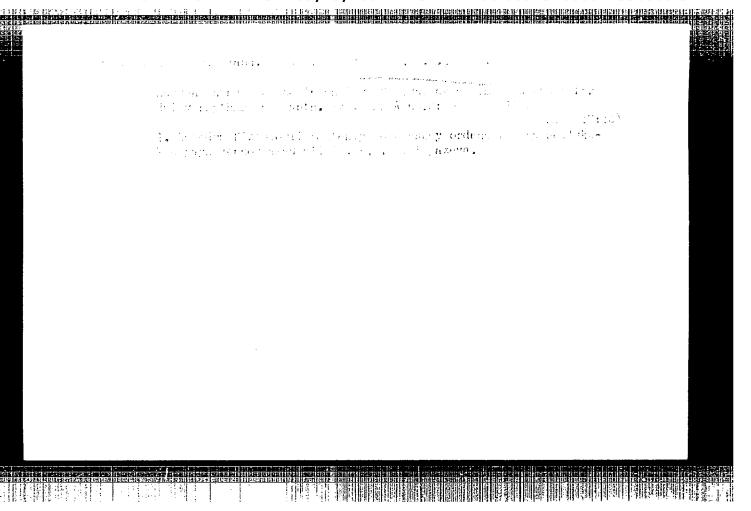
1. Akademiya nauk SSSR. Institut fiziologii rasteniy.

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[Role of mineral elements in the metabolism and productivity of plants] Rol' mineral'nykh elementov v obmene veshchestv i produktivnosti rastenii. Moskva, Izd-vo "Nauka," 1964. 358 p. (MIRA 17:7)

1. Akademiya nauk SSSR. Institut fiziologii rastenii.



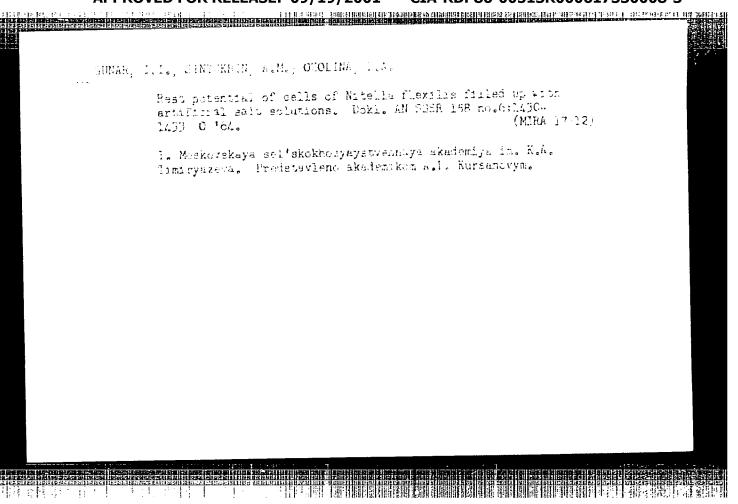
KRASTINA, Ye.Ye., starshly nauchnyy sotrudnik, kand. biolog. nauk; GUNAR, I.I., prof.

Effect of thermal stimulation on the exudation of sap by sunflower roots. Izv. TSKHA no.3:71-81 164. (MIRA 17:11)

l. Kafedra fiziologii rasteniy Moskovskoy sel'skokhozyaystvennoy akademii imeni Timiryazeva.

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TITLE: Role of bivalent catio	ons in excitation of a single plant cell
monra maga, matalla mlant a	cell, ion concentration, excitation,
protoplasm flow, calcium ion,	or substituting Mg24 for Ca24 in a
medium was investigated with a nitella cells. Change in Mg24	concentration from 0 to 0.006 n. had
substitution of Ca2 by Mg2. I action currents which were ex	panded in form and of long duration.
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Card 1/2	

I. 34555-65 ACCESSION Inot stop as compared to tenfold reand 0.0002 when action of 0.0006 Mg2+ concert. Tsofina	s under no the move duction of the notion of the notions the flutrations	ormal cond ement rate f K <sup>†</sup> in th circular f s were gen	for prove a medium low of provented, to contact the contact of the	and Mg2+ or rotoplasm sout with a	concentrat stopped in Mg2 conc	ions of 0 ell cases entretion With high	
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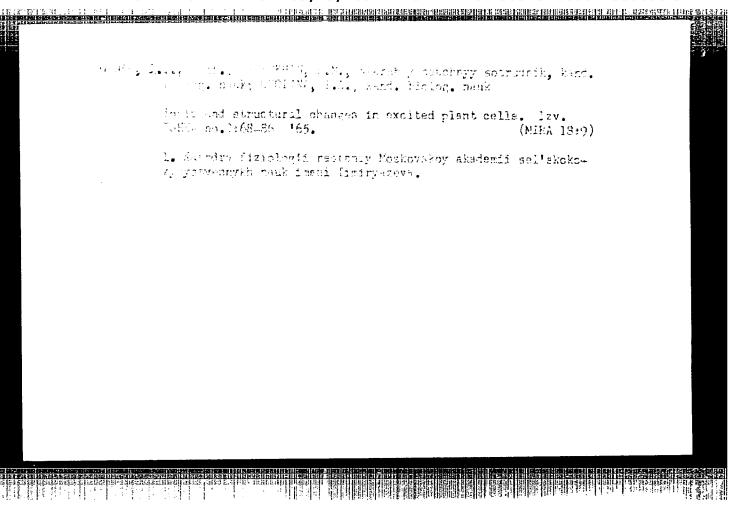


GUNAR, 1.1.; SINTERNIN, A.M.; OZOLINA, 1.A.

Action potential of Nitella flexilis cells filled with artificial salt solutions. Dokl. AN SSSR 160 no.4:956-959 F '65.

GIRA 18:2)

1. Moskovskaya sel'skokhozyaystvenraya akademiya im. K.A. Timiryazeva. Submitted March 21, 1964.



GUNAR, I.I., prof.; FANTALOV, O.S., inzh.

Laboratory of artificial climate of the Timiriazev Agricultural Academy. Izv. TSKHA no.4:220-240 '65.

(MIRA 16:11)

1. Sulmitted April 29, 1965.

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GUNAR, V. I.

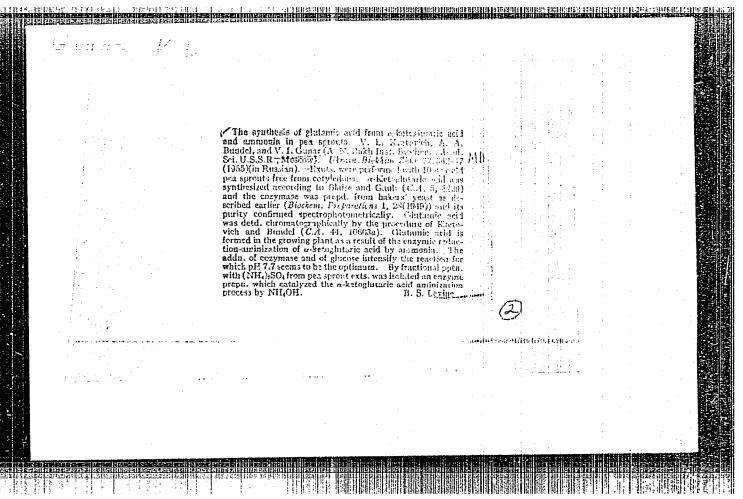
USSR/Chemistry - Growth Stimulants

"Synthesis of Some Chlorophenoxy Derivatives, "V. P. Mamayev, N. N. Suvorov, and V. I. Gunar, Moscow Chem-Tech Inst im D. I. Mendeleyev

Zhur Obshch Khim, Vol 23, No 7, pp 1206-1209 - 1913

Synthesized the following: A-(4-chlorophenoxy)-pheny-lacetic acid, A-(2,4-dichlorophenoxy) phenylacetic acid, A-(2,5-dichlorophenoxy)-phenylacetic acid, V-(4-chlorophenoxy)-crotonic acid, V-(2,4-dichlorophenoxy)-crotonic acid, V-(2,5-dichlorophenoxy)crotonic acid, and 2,4-dichlorophenoxyace-tone.

272T19



GUNAR, V.I.; ZAV'YALOV, S.I.

New method of synthesizing quinolizidine derivatives. Dokl. AN SSSR 139 no.2:367-368 Jl '61. (MIRA 14:7)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Predstavleno akademikom B.A. Kazanskim.
(Norlupinane)

NAZAROV, I.N.; GUSEV, B.P.; GUMAR, V.I.

Complete synthosis of isopropenoid alcohols. Izv. AN SSSR Otd. khim. nauk no.10:1267-1270 0 '57. (MIRA 11:3)

1.Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. (Alcohols)

GUNAR, V.I.

20-2-27/60

AUTHORS: Nazarov, I. N., Member of the Academy, Yanovskaya, L. A.,

Gusev, B. P., Yufit, S. S., Gunar, V. I., Smit, V. A.

TITLE: The Synthesis of Methylheptenone and Methylheptadienone

(Sintez metilgeptenona i metilgeptadiyenona)

PERIODICAL: Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp. 331-334

(USSR)

ABSTRACT: The two substances mentioned in the title of the paper under

review are of importance for the synthmis of the natural scenting substances of the isoprenoid type. The authors of the present paper investigated the production of the former on basis dimethylvinylcarbinol or isoprene with the aid of three different methods :(1) by condensation of prenylhalogenids by aceto-ethylacetate; (2) by interaction between dimethylvinylcarbinol and the same ether; and (3) by pyrolysis of the same ether of dimethylvinylcarbinol. As was shown in a previously published scientific paper originating in the same laboratory, there are produced at influence by hydrogen

halides on dimethylvinylcarbinol corresponding prenylhalides

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20-2-27/60

The Synthesis of Methylheptanone and Methylheptadienone

with high yields. They can be easily condensed by sodium-aceto-ethylacetate and at a subsequent saponification they yield methylheptenone. The second method of synthesis takes place at a temperature of 160 - 170 and yields 60 - 70 % methylheptenone in addition to an almost theoretical amount of ethanol and CO2. The reaction must be carried out under pressure or by using high-boiling Vaseline oil. The remainder after distillation is aceto-ethylacetate of dimethylvinyl-carbinol. At 160 - 170° this is subjected to a pyrolysis, and here methylheptenone and CO, are produced. This supports the reactions mechanism as illustrated in the paper under review. The pyrolysis of pure dimethylvinylcarbinol-acetoacetate was investigated further. It is produced with a yield of 90 %, when diketone affects dimethylvinylcarbinol in presence of small amounts of pyridine, best at a temperature between 145 and 160°. During this process, me thylheptenone is produced (65 - 70 %). The pyrolysis has also a lateral direction and leads to isoprene, acetone and CO2. Sometimes this lateral direction predominates. The authors of the present paper studied in detail the production methods of methylheptadienone both by interaction between dimethylethinylcar-

Card 2/4

20-2-27/60

The Synthesis of Methylheptenone and Methylheptadienone

binol and aceto-ethylacetate, and also by pyrolysis of pure dimethylathinylcarbinol-acetoacetate with a yield of 90 %by influence of diketone on pure dimethylethinyl in presence of triethylamine. The reaction takes place only at 170 180°. Below 160° the initial products are obtained again, because no interaction takes place. In the gaseous phase the reaction takes place only at 250-300°. There the yield is low (15-20 %). Inert diluting agents, acide, salts and metallic oxides do not favor the reaction, but rather frequently lead to a complete resinification of the substance. Here again lateral processes take place, with isopropenylacetylene and acetone being produced. The experimental part of the paper under review contains a detailed description of the production methods together with constants and yields. There are 5 references, 1 of which is Soviet.

Card 3/4

20-2-27/60

राज्ञाता कुलाक, मान्याचार संस्था कार्या, संस्था संस्था किया । साम संस्था कर्या । साम संस्था संस्था कर साम

The Synthesis of Methylheptenone and Methylheptadienone

ASSOCIATION: Institute of Organic Chemistry imeni N. D. Zelinskiy, AS

USSR

(Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR)

SUBMITTED: January 7, 1957

AVAILABLE: Library of Congress

Card 4/4

5(3)

AUTHORS: Nazarov, I. N., Bergel'son, L. D., SOV/62-58-11-13/26

Gunar, V. I.

TITLE:

Acetylene Derivatives (Proizvodnyye atsetilena)
Communication 191. Preparation of Acids From Tertiary
Acetylene Alcohols (Soobshcheniye 191. Polucheniye kislot
iz tretichnykh atsetilenovykh spirtov)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 11, pp 1354-1360 (USSR)

र राज्य ने प्रकार में अर्ज क्षित्र के अपने अधिकार सम्बद्ध के स्वति स्वति के स्वति स्वति का स्वति स्वति के स्वति

ABSTRACT:

Recently it was demonstrated that cis-dibromo-vinyl carbinols (I) easily cleave off dehydrates and hydrogen bromide while forming unstable 1-bromo-vinyl acetylenes (III). When boiled with alkali they produce  $\infty$ ,  $\beta$ - or  $\beta$ ,  $\beta$ -unsaturated acids (Ref 1). In this paper a method of producing unsaturated acids is described which is based on the mentioned reactions. To increase the yield in substituted dibromo butadienes (II) dehydration of dibromo-vinyl carbinols (I) were investigated under the action of heat and various dehydrating agents. Optimum results were obtained in boiling with dibromo-vinyl carbinols in petroleum ether with phosphoric anhydride (in the case of cis-dibromo-vinyl dimethyl carbinol) or with

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Acetylene Derivatives.

Communication 191. Preparation of Acids From Tertiary
Acetylene Alcohols

507/62-58-11-13/26

p-toluene sulfo acid (in the case of cis-dibromo-vinyl cyclohexanol). If bromination of acetylene alcohols is carried out in petroleum ether dehydration can take place without separation of brominated alcohols (I). Substituted dibromo butadienes (II) and especially vinyl acetylene bromides (III) are unstable. They partly decompose and saponify in the course of distillation. For this reason it is expedient to carry out further processes of dehydrobromination and of alkali hydrolysis in a single stage without separation of bromine derivatives (II) and (III). Under these conditions the transformation of acetylene alcohols into unsaturated acids can be carried out in a great number of cases in sufficient yield (Table 1). The constants of all known acids agree well with the data from publications. There are 1 table and 15 references, 1 of which is Soviet.

Card 2/3

Acetylene Derivatives.

Communication 191. Preparation of Acids From Tertiary
Acetylene Alcohols

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: March 27, 1957

Card 3/3

30V/79-28-6-5/63 Nazarov, I. N. (Deceased), Gusev, B. P., Gunar, V. I. AUTHORS:

Derivatives of Acetylene (Proizvodnyye atsetilena) TITLE:

193. A Complete Synthesis of the Isoprenoid Alcohols of Linalcol, Geraniol, Nerol, Nerolidol, Farnesol, Geranillinalool, Geranilgeraniol and Phytol (193. Polnyy sintez izoprenoidnykh spirtov(linaloola, geraniola, nerola, nerolidola, farnezola, geranillinaloola, geranilgeraniola i

fitola))

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 6, pp. 1444-1458

(USSR)

As dimethylvinylcarbinol has become completely accessible as ABSTRACT:

technical product the authors decided to investigate the complete methods of synthesis of isoprenoid alcohols on its basis, as well as on that of isoprene; for this purpose they repeated the mentioned reaction cycle several times (scheme 1). This way the isoprenoid chain is built in the way of successive combination reactions of ethinylation, of

Card 1/3 selective hydration, isomerization and acetonylation, the

Derivatives of Acetylene. 193. A Complete Synthesis of the Isoprenoid Alechols of Linalcol, Geraniol, Nerol, Nerolidol, Farnesol, Geranillinalcol, Geranilgeraniol and Phythol

two latter reactions mostly being carried out in one stage without separation of the intermediate products. The whole coarse of this synthesis leading to the isoprenoid alcohols Coarse (of geranilgeration and phytol) was investigated in detail and represented by the mentioned schemes (see schemes for the synthesis of graniol (V), farnesol (IX), geranilgeraniol (XIII) and physol (XXV)). The accessibility of the initial products, the simplicity of its performance as well as the good yields at all stages of development of the explicitly described synthesis make it perfectly suited for the industrial production of linalools, geraniol, nerol, nerolidol, farnesol, geranillinalool, and geranilgeraniol, as these compounds are of great interest for the perfume industry and for the synthesis of some important natural compounds (vitamins, A,E,K, carotenoids, terpenes, etc.). Thus the authors for the first time carried out in detail a complete synthesis of the above mentioned isoprencid alcohols as well as of the intermediate products of the synthesis (the ketones, and acetylene alcohols) by successive repeating of

Card 2/3

Derivatives of Acetylene. 193. A Complete Synthesis of the Isoprenoid Alcohols of Linalcol, Geraniol, Nerol, Nerolidol, Farnesol, Geranillinalcol, Geranilgeraniol and Phytol

the condensations of the ketones with acetylene, the selective hydration of the acetylene alcohols and of the conversion of tertiary vinylalcohols to isomeric primary alcohols of the allyl type as well as to unsaturated ketones of the allylacetone type. There are 24 references, 6 of which are Soviet.

。 中国大学、1997年,全国企业投资的创创,在全国的国际的企业和经济企业和经济的企业和企业的企业的企业,在企业工程的企业工程,在企业工程,在企业工程,在企业工程,

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR

(Institute of Organic Chemistry, AS USSR)

SUBMITTED: June 28, 1957

1. Alcohols--Synthesis

Card 3/3

5(3) 507/62-59-2-31/40 AUTHORS:

Gunar, V. I., Zav'yalov, S. I., Krotov, A. I.

TITLE: Synthesis and Anthelmintic Effect of Dehydroresorcinol Derivatives With Branched Aliphatic Chains (Sintez i antigel'mintnoye

deystviye proizvodnykh digidrorezortsina, soderzhashchikh

razvetvlennyye alifaticheskiye tsepi)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1959, Nr 2, p 358 (USSR)

ABSTRACT: The authors found that dehydroresorcinol can be alkylated with

branched allyl bromides described in reference 1 in an  $\sim$  50% yield. In this way the following compounds were synthesized:

 $2-(3',7'-dimethyl-\Delta^{2'}-octenyl)-dehydroresorcinol, 2-(3',7'-di-$ 

methyl- $\Delta^{2',6'}$ -octadienyl)-dehydroresorcinol and 2-(3',7',11'-

trimethyl- $\Delta^2$ '-dodecylenyl)-dehydroresorcinol. On boiling with acetic anhydride these ketones yielded corresponding enol acetates in large yield. All compounds are anthelmintics. The

2-(3',7',11'-trimethyl-\(\Delta^2'\)-dodecylenyl)-dehydroresorcinol

Card 1/2 proved to be the most active compound. There is 1 Soviet ref-

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Synthesis and Anthelmintic Effect of Dehydroresorcinol Derivatives With Branched Aliphatic Chains

erence.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy

of the Academy of Sciences, USSR) Institut malyarii,

meditsinskoy parazitologii i gel'minotologii Minzdrava SSSR (Institute for Malaria, Medical Parasitology and Helminthology

of the Ministry of Public Health, USSR)

SUBMITTED:

July 10, 1958

Card 2/2

GUNAR, V. I. Cand Chem Sci — (diss) "Synthesis, rearrangement and biological activity of derivatives of dihydro-resorcin containing isoprene chains," Moscow, 1960, 15 pp, 180 cop.

(Inst. of Organic Chemistry im N. D. Zelenskiy, AS USSR) (KL, 44-60,128)

#### 

GUNAR, V.I.; ZAV'YALOV, S.I.

Syntheses based on 2-prenyldihydroresorcinol. Izv.AN SSSR Otd.khin. nauk no.5:937 My '60. (MIRA 13:6)

1. Institut organicheskoy khimii imeni W.D.Zelinskogo Akademii nauk SSSR.
(Resorcinol)

ZAV YAIOV, S.I.; GUNAR, V.I.; VASIL'YEV, A.F.

Direct hydroxylation of 2-substituted dihydroresorcinols. Izv.
AN SSSR Otd.khim.nauk no.5:938 My '60. (MIRA 13:6)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo Akademii nauk SSSR.

(Resorcinol) (Hydroxylation)

### 

ZAV'YALOV, S.I.; GUNAR, V.I.; KUDNYAVTSEVA, L.F.

Chemistry of dihydroresorcinol. Report No. 6: New steps in the synthesis of phenanthrene derivatives based on dihydroresorcinol. Izv. AN SSSR.Otd. khim. nauk no.11:2009-2013 N ¹60.

(MIRA 13:11)

1. Institut organicheskoy khimii im.N.D.Zelinskogo AN SSSR. (Phenanthrene) (Resorcinol)

GUNAR, V.I.; ZAV'YALOV, S.I.

Chemistry of dihydroresorcinol. Part 8: Syntheses based on 2-prenyldihydroresorcinol. Zhur. ob. khim. 30 no.11: 3658-3663 N'60. (MIRA 13:11)

1. Institut organicheskoy khimii Akademii nauk SSSn. (Resorcinol)

S/020/60/132/04/26/064 B011/B003

5.3400

AUTHORS: Gunar, V. I., Zav'yalov, S. I.

TITLE: A New Synthesis of Phytol

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 4,

pp. 829-831

TEXT: In a previous paper (Ref. 1) the authors showed that the alkylation of dihydroresorcinol with prenyl bromides (II) leads to a series of cyclic β-diketones which contain isoprenoid chains. In the article under review the authors proved that these derivatives of dihydroresorcinol may be used, inter alia, for the synthesis of phytol (XIII). In the hydrolytic cleavage of 2-pre.yl- and 2-geranyldihydroresorcinols (III) and (IV) large quantities of corresponding keto acids (V) and (VI) were formed. The latter reacted smoothly with an excess of lithium methyl, with the two functional groups participating. In the dehydration of the keto alcohols (VII) and (VIII) obtained by means of potassium bisulfate and in the subsequent complete hydrogenation

Card 1/2

A New Synthesis of Phytol

S/020/60/132/04/26/064 B011/B003

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of the unsaturated ketones (IX) and (X) on platinum oxide the following known ketones were obtained: tetrahydrogeranylacetone (XI) and hexahydrofarnesylacetone (XII) (Ref. 2). In accordance with Refs. 2 and 3 the ketone (XII) can be easily converted into phytol (XIII). Thus, a new method of synthesizing isoprenoid compounds was elaborated. It permits extension of the chain of vinyl alcohols (I) by eight atoms. Here, large yields of ketones (XI) and (XII) can be obtained. There are 3 references, 2 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo

Akademii nauk SSSR (Institute of Organic Chemistry imeni

N. D. Zelinskiy of the Academy of Sciences, USSR)

PRESENTED:

February 12, 1960, by B. A. Kazanskiy, Academician

SUBMITTED:

January 19, 1960

Card 2/2

GUNAR, V.I.; ZAV'YALOV, S.I.; PERSHIN, G.N.; MILOVANOVA, S.N.;

BOGDANOVA, N.S.; MAKEYEVA, O.O.; KROTOV, A.I.

THE PERSON OF TH

—Dicarbonyl compounds. Part 14: Synthesis, transmittions, and biological activity of 2-prehnyldihydroresorcinol. Zhur. ob.khim. 31 no.12:3975-3984 D 61. (MIRA 15:2)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR; Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farma-tsevticheskiy institut imeni S.Ordzhonikidze i Institut malyarii, meditsinskoy parazitologii i gel'mintologii.

(Resorcinol)

GUNAR, V.I.; ZAV'YALOV, S.I. New possibility of building-up a ring system of the CD steroid molecule. Izv.AN SSSR.Otd.khim.nauk no.3:527-529 Mr 62.

(MIRA 15:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Steroids) (Cyclization)

### 

GUNAR, V.I.; KUDRYAVTSEVA, L.F.; ZAV'YALOV, S.I.

B-Dicarbonyl compounds. Report No.16: Alkylation of dipotassium derivatives of cyclic B-dicarbonyl compounds in liquid ammonia. Izv.AN SSSR.Otd.khim.nauk no.8:1431-1435 Ag '62. (MIRA 15:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Carbonyl compounds) (Alkylation)

GUNAR, V.I.; ZAV'YALOV, S.I.

Synthesis of trans-anti-trans-1-oxo- \( \Delta \text{-4a}, \frac{12a}{2a} \)
hydrochrysene. Izv.AN SSSR.Otd.khim.nauk no.2:380-382 F '63.
(MRA 16:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Chrysene)

GUNAR, V.I.; OVECHKINA, L.F.; ZAV'YALOV, S.I.

Condensation of 1-morpholinecyclohexene with Mannich ketones. Izv. AN SSSR. Otd.khim.nauk no.6:1110-1111 Je '63. (MIRA 16:7)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR. (Cyclohexene) (Morpholine) (Ketones)

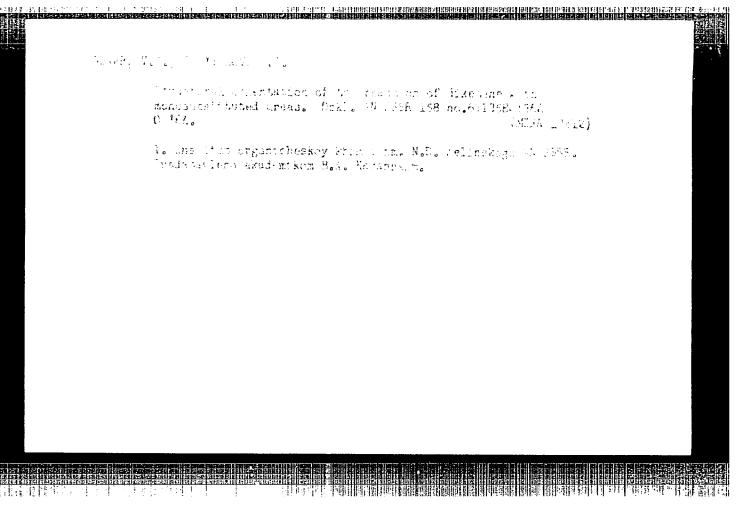
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١,	WIHOR: Gunar, V. I.; Ovechkina, L. F.; Zav'yalov, S. I.; Pershin, G. N.; Killovanova,
6	S. N.
	Commication 22. Synthesis and fungistatic acti-
1	rity of some of the simplest analogs of the antibiotic Grismofulvin
1	vity of some of the simpless shares
١,	SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 10, 1964, 1827-1831
ľ	ablaringted advants compound, alky-
	TOPIC TAGS: antibiotic, pharmacology, ester, chlorinated organic compound, alky-
	lation, cyclization, organic synthetic process  lation, cyclization, organic synthetic process  Abstract: A series of enol esters of dihydroresorcinol, imitating the six-  Abstract: A series of enol esters of dihydroresorcinol, imitating the six-
Γ	Abstract: A series of enol esters of dihydroresorcinos, initiating Abstract: A series of enol esters of dihydroresorcinos, initiating membered hydroaromatic ring of griseofulvin, was studied in an effort to determine membered hydroaromatic ring of griseofulvin, was studied in an effort to determine membered hydroaromatic ring of griseofulvin, was studied in an effort to determine
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	romanone series were prepared by cyclisation of derivatives of a function of romanone series were prepared by cyclisation of casorcinol in the presence of phosphoric acid. 5.6.7.8-Tetrahydrochromanone series were of phosphoric acid. 5.6.7.8-Tetrahydrochromanone series and the condensation of casorcinol in the presence by a new method of synthesis, based on condensation of
1	resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcinel in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-101124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-10124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-10124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-10124,51.00 of resorcine in the presence of phosphoric acid. 5,6,7,6-10124,51.00 of resorcine in the pre
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SSSR nauch (All-	(Institute of Organic Como-issledovatel'skiy kindron Scientific Researcher): 15Jan63	imiko-farmatsevticheskiy i rch Chemicopharmaceutical	nstitut im. S. Ordzho Institute) SUB CODE:	nikidze
SSSR nauch (All-	(Institute of Organic Como-isoledovatel'skiy kin- Union Scientific Resea (NTED: 15Jan63	imiko-farmatsevticheskiy i rch Chemicopharmaceutical	nstitut im. S. Ordzho Institute) SUB CODE:	nikidze

ZAV'YALOV, S.I.; KONDRAT'YEVA, G.V.; GUNAR, V.J.

Synthesis of dibenzofuran derivatives. Izv. AN SSSE Ser. knim.
no.11:2086-2087 N '64 (MTA 18:1)

1. Institut organicheskoy knimii N.D. Telinskego AN SSSE.



ZAV'YALOV, S.1.; GUNAE, V.I.; MINHAYLOMILO, I.A.

Effect of mercury diacetate on the course of the reaction between diketene and ureas. Izv. AN SSSR khim. no.1:201 '65.

(MIFA 18:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

GUNAR, V.I.; ZAV'YALOV, S.I.

Case of /-pyrone ring formation in the reaction of diketene with urea derivatives. Izv. AN SSSR. Ser. khim. no.4:747-748

165. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

GUNAR, V.I.; OVECHKINA, L.F.; ZAV'YALOV, S.I.

Synthesis of 1,3-cxazine derivatives based on diketene. Izv. AN SSSR. Ser. khim. no.6:1076-1077 '65.

(MIRA 18:6)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

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GUNAR, V.I., OVECHKINA, L.F., ZAV'YALOV, S.I.; PERSHIN, G.N.; MILOVANOVA, S.N.

Dicarbonyl compounds. Report No.2: Synthesis and fungistatic activity of some simplest analogs of the antibiotic griseofulvin. Izv. AN SSSR. Ser. khim. no.10:1827-1831 0 '64.

(MIRA 17:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR i Vsesoyuznyy nauchne aledovatel skiy khimiko-farmatsevticheskiy institut im. S. Ordanskikidze.

### 

MIKHAYLOPULO, 1.A.; GUNAR, V.I.; ZAV'YALOV, S.I.

Selective methylation of simplest uracils. 127. AN SCSR. Ser. khim. no.9:1715 '65. (MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

GHEIR, V.I.; OVECHKINA, L.F.; ZAVIYALOV, S.I.

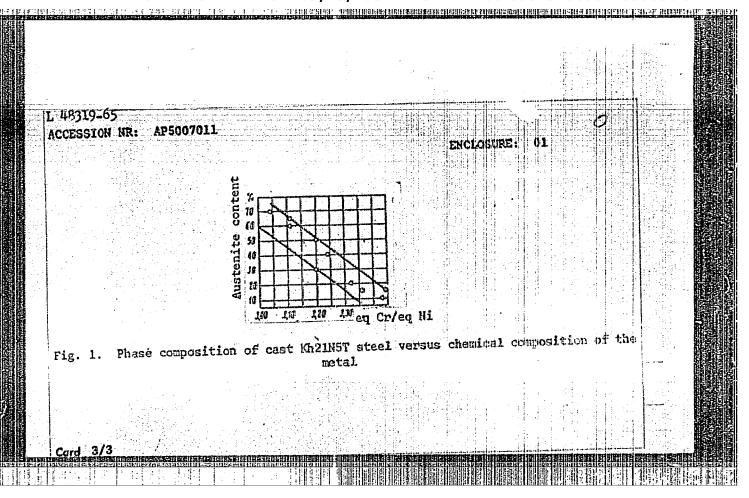
Reaction of diketene with armonia and amidez of carboxylic acids. Tzv. AN SSSR.Ser.khim. no.10:1885-1296 '65.

(MIKA 18:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

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	d IJP(c) MJN/JD/ ESSION NR: AP500701	HW/JG	S/0129/65/000/003/0	0057/0060	
AUT	HOR: Moshkevich, Ye	e. I.; Gunaza, K. P.; Zlatk	ina, B. I.	38	
1		roperties of Kh21N5T steel		"B	7
sou	RCE: Metallovedeniy	ye i termicheskaya obrabotk	ca metallov, no. 3, 1965	, 57-60	
TOF	IC TAGS: phase comp	position, gustenite, metal	mechanical property, he	at teartment	
	mn a million a haran m		al batches of cast Kh21N	5T ataci.	
Was	studied at room and	d high temperatures, and the	ious heat treatments. P	olished	
spe	cimens were etched	in a reagent made up of 10	mount of the austerite o	Listonent	
cha	inged from 10 to 70%	at room temperature, and	a derinite relationning	me nickel 17	
(se	ee fig. 1 of the Enc	losure). In hardened spec	n order to obtain tensil	e strength	
o <sub>b</sub>	2 70 kg/mm <sup>2</sup> , no less	than 15 to 20% austenite	must be present in the a	intal struc-	

48319-65 CCESSION NR: AP5007011			4
igher. Tempering at 550°C ardening of the metal is a lince such changes occur when concluded that high mechant of over 20%. The phase	ce, such a metal has an impact streng causes a substantial change in the associated with a sharp decline in in men the amount of the austenitic phase canical properties of the steel requi- se composition of the metal of the st	mechanical ploper mact strength. He is below 20%, i kre an nustenite c Labs was determine	t 011-
the central laboratory of	of the "Zaporozhstal" under the superas: 4 figures and 2 tables.	ervision of N. P.	
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L 18651-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG

ACCESSION NR: AP3004789 S/0129/63/000/008/0055/0059 68

AUTHOR: Bobkov T. M.: Moshkevich Ve. M.: Gunera K. B.: 71etking V. T. 62

AUTHOR: Bobkov, T. M.; Moshkevich, Ye. M.; Gunaza, K. P.; Zlatkina, V. I.

TITLE: Effect of additions of rare-earth metals and their oxides on properties of some stainless steels,

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 8, 1963, 55-59

TOPIC TAGS: stainless steel, Khl8N10T steel, AISI 321 steel, Kh23N18 steel, AISI 310 steel, Kh17N13M2T steel, AISI 316T steel, misch metal effect, ferrocerium effect, lanthanum effect, cerium dioxide effect, lanthanum oxide effect, praseodymium oxide effect, steel hot ductility, steel structure, nonmetallicinclusion content, cast structure, ingot structure

ABSTRACT: The effect of addition of 0.05—0.35% misch metal [50% Ce, 25% La, and 25% various rare-earth metals] or 0.05—0.4% ferrocerium, lanthamum, cerium dioxide, lanthamum oxide, and praseodymium oxide on structure, phase composition, amount of nonmetallic inclusions, room-temperature mechanical properties, and hot ductility of Khl8NlOT ([AISI 321], Kh23Nl8 ([AISI 310], and [Khl7Nl3M2T] [AISI 316] stainless steels has been investigated. None of

Card 1/2

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ACCESSION NR: AP3004789

the additions was found to have a significant effect on the crystal structure of ingots of any steel tested. The forged metal had a fine-grained structure with a low content of oxide and sulfide inclusions. A 0.15—0.25% addition of misch metal reduced the amount of carbonitride inclusions in all steels tested. Kh18N10T steel containing 0.1% misch metal had improved hot ductility. In the Kh23N18 steel addition of 0.3 and 0.05% misch metal improved the ductility at 1100—1250 and 1000C, respectively. Addition of 0.05—0.15% misch metal or 0.15—0.30% La improved ductility of Kh17N13M2T steel at 1000C. Addition of ferrocerium, lanthanum/cerium/dioxide, lanthanum or praseodymium 2 oxides brought about no improvement in hot ductility or room-temperature mechanical properties of Kh17N13M2T steel. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Zavod Dneprospetsstal' (Dneprospetsstal' Plant)

SUBMITTED: 00

DATE ACQ: 06Sep63

ENCL: OO

SUB CODE: ML

NO REF SOV: OOO

OTHER: 000

Card 2/2

MOSHKEVICH, Ye.I.; GUNAZA, K.P.; ZLATKINA, B.I.

Studying the properties of Kh21N5T steel. Metalloved. i term. obr. met. no.3:57-60 Mr '65. (MIRA 18:10)

1. Zavod "Dneprospetsstal".

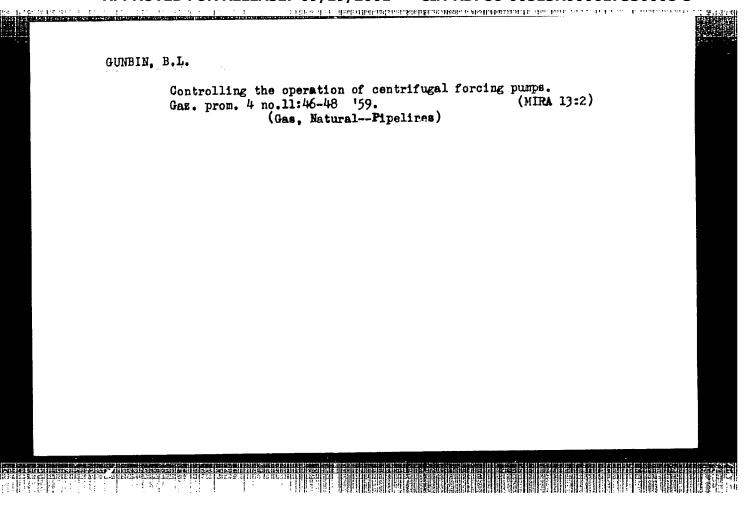
GUNAZA, L.

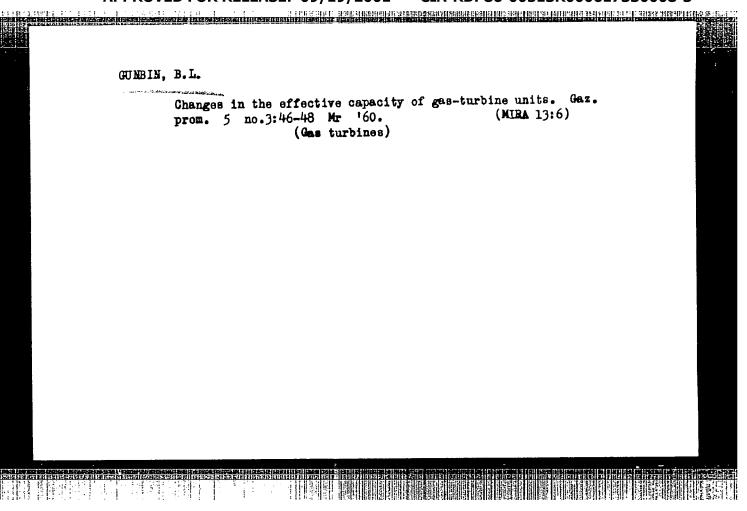
My experience in the maintenance of a jigging machine. Mast.ugl. 3 no.2:16 F '54. (MIRA 7:3)

1. Moyshchik Dobropol'skoy TsOF tresta Stalinugleobogashcheniye. (Coal-handling machinery)

AUTHOR: Gunbin, B. L. (Candidate of tech	SOURCE CODE: UR/0114/66/000/008/0008/0011 nical sciences)
OPC: none	
ONO. HOME	· ·
TITLE: The structure of the relative flow impeller	at the exit from a centrifugal compressor
SOURCE: Energomashinostroyeniye, no. 8, 1	966, 8-11
TOPIC TAGS: centrifugal compressor, compressor $\mathcal{F}_{LOL}$ $\mathcal{S}_{TKUCTUFE}$ ABSTRACT: The results are presented of an at the exit from the centrifugal compressor using a single stage unit with three-channe outer diameter of the impeller. Tested were $\beta_2/D_2 = 0.055$ with inlet and exit angles of blade numbers of $z_2$ -18.24, and 28, at 7800 speed at the outer diameter of the impeller were reached: a) Flow separation from the in the exit cross section of the flow passed discharge component of the relative velocity impeller is transformed in such a way that	r impeller. The measurements were made of cylindrical probes, rigidly fixed on the re three impellers with relative thickness $\beta_1 = 32^{\circ}$ and $\beta_2 = 45^{\circ}$ , respectively, and $\beta_3 = 45^{\circ}$ , respectively, and $\beta_4 = 45^{\circ}$ , respectively, and $\beta_5 = 45^{\circ}$ , respectively,
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GUNBIN, B.L., inzh.

Pressure coefficient of the runners of centrifugal compressors. Izv. vys. ucheb. zav.; energ. 6 no.6:99-105 Je '63.

(MIRA 16:11)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti. Predstavlena kafedroy glubokogo okhlazhdeniya.

S/115/62/000/004/003/007 E194/E154

AUTHOR: Gunbin, B.L.

TITLE: An instrument for remote temperature measurements

of a moving medium

FERIODICAL: Izmeritel'naya tekhnika, no.4, 1962, 16-17

TEXT: In investigations on turbines, heat exchangers and various aerodynamic equipment it is necessary to measure the temperature distribution and average temperature in a fluid medium moving with high speed. This is difficult to do with ordinary thermometers because their time-constant coefficients depend on the Reynolds and Mach numbers of the flow. The present article describes an instrument for making measurements of this kind with high subsonic flow speeds. The schematic diagram of the instrument is an unbalanced bridge with a thermistor in one arm. Any one of four sensing elements may be connected to the measuring circuit in turn by means of a selector switch. The temperature range covered is 0 to 100 °C and besides the full-range scale for coarse measurements there Card 1/2

An instrument for remote .....

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are five subsidiary ranges covering a spread of 240 each. Thermistors vary in their properties, and so that a single calibration curve can be used for all the sensing elements, resistances are connected in series and parallel with the thermistors to give them standard characteristics. The error of measurement depends mainly on the accuracy of the galvanometer. Using a microammeter type M91 (M91) with a full-scale deflection of 10 microamps, the error is 0.2 °C. The instrument is easily arranged to take an average of four readings and if these differ from one another by 2 to 40 the difference between the instrument reading and the arithmetic mean temperature is not more than 0.1 °C. The instrument is powered by dry batteries. There are 2 figures and 2 tables.

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L 1955h-65 EPA/ENT(1)/ENG(v)/ENP(f)/T-2/EPA(bb)-2/AP645/FW-4 AEDC(a)/ASE(s)/ASD(b)-3/AFETR/AFTC(a) WW ACCESSION NR: AP4048335 S/0114/64/000/010/0043/0044

AUTHOR: Gunbin, B. L. (Engineer)

TITLE: Structure of the relatively-moving flow at the entrance of a centrifugal-

compressor impeller

23

SOURCE: Energomashinostroyeniye, no. 10, 1964, 43-44

TOPIC TAGS: centrifugal compressor, compressor inlet flow

ABSTRACT: Tests on a model of an axial-inlet centrifugal compressor were performed at 8,700 rpm which corresponded to a peripheral velocity of 140 m/sec; three impellers, with 18, 24, and 28 blades, were studied; impeller outside diameter,  $D_2$  = 305 mm; relative width,  $b_2/D_2$  = 0.055;  $D_1/D_2$  = 0.554; inlet and outlet angles, 32° and 45°, respectively. It was found that: (1) The angle of attack varies differently in different sections of the blade and has a maximum variation at the cover disk; (2) Under optimum-efficiency conditions, angles of

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ACCESSION NR: AP4048335

attack in all blade sections coincide: (3) Reaction of the blading upon the flow swirl is practically nil, the swirl being caused only by the impeller web and cover disk. Orig. art. has: 3 figures.

ASSOCIATION: Nevskiy mashinostroitel'ny\*y zavod (Neva Machine-Building Plant)

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NO REF SOV: 002

OTHER: 000

Cara 212

ACC NR: AP7002607

SOURCE CODE: UR/0413/66/000/...3/0115/0116

INVENTORS: Gunbin, B. L.; Shabashov, S. Z.

ORG: none

TITLE: An automatic device for disconnecting a damaged gas pipe. Class 47, No.

189271

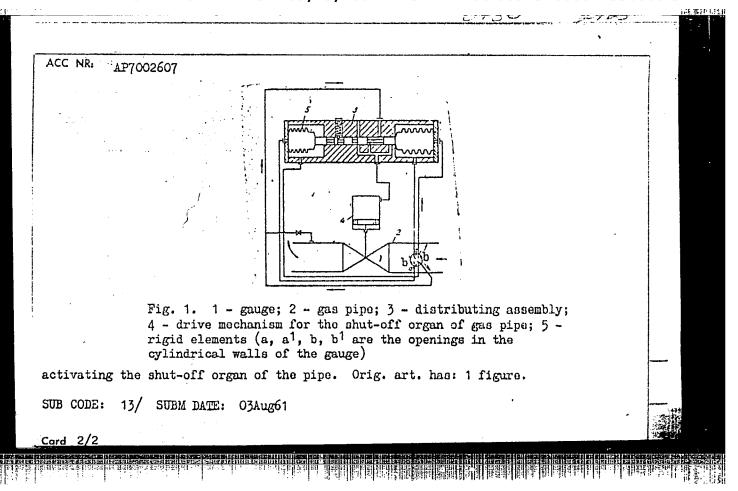
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 115-116

TOPIC TAGS: gas engineering, gas conduction, gas flow

ABSTRACT: This Author Certificate presents an automatic device for disconnecting a damaged gas pipe. The device includes a distributing assembly (which activates the drive mechanism of the shut-off organ) and a gauge which controls the change of gas flow in a gas pipe when the latter is damaged (see Fig. 1). To prevent the automatic device from being activated by the changing operational conditions and to activate it when the velocity head exceeds the allowable limit, the gauge (fixed to the automatic device and made in the form of a cylinder) is oriented at right angles to the longitudinal axis of the gas stream. The lateral walls of the cylinder contain four openings. Two of these are placed centrally in respect to the stream during its forward and backward flow. The other two are placed at some angle to the central ones. These openings are connected by pipes (located within the casing of the gauge) to the rigid elements of the distributing assembly which motivates the drive mechanism

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JDC: 621.646.83-522



L 10908-67 EWT(d)/EWT(m)/EWP(h) TCH
ACC NR. AP6006523 SOURCE CODE: UR/0375/65/000/011/0045/0047

AUTHOR: Gunbin, N. A. (Colonel, Candidate of Military Sciences, Hero of the Soviet Union, Military Navigator 1st class)

ORG: None

TITLE: Maintaining formation with aircraft

SOURCE: Morskoy sbornik, no. 11, 1965, 45-47

TOPIC TAGS: navigation aid, navigation system, air force training, air force tactic

ABSTRACT: Naval aircraft engaged in long overland or offshore flights, and not equipped with interaircraft navigation instruments, use a method to maintain station in the formation, referred to as the time interval method, but it has inherent difficulties making it inconvenient since it requires giving commands and signals via radio, a situation which may not be tolerated because of the specific tactical situation controlling the flight in question. Nor is it accurate enough. Too, formulas used to derive information required for station keeping must take into consideration several human errors such as the error resulting from the impossibility of making a timely signal of passage through the control point, and the error involved in startand stopping the stopwatch. The result is an overall error which can be exceedingly large. This may have as its end result the unacceptability of the system for night

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GUNBIN, N.A., Geroy Sovetskogo Soyuza, kand. voyennykh rauk, polkovnik, voyennyy shturman 1-go klassa

Interaircraft navigation. Mor. sbor. 48 no.2:54-59 F '65. (MIRA 18:11)

GUNBIN, M.A., Geroy Sovetskogo Soyusa, kand. voyennykh nauk,
pôlkovnik, voyennyy shtursan 1-go klassa

Maintenance of combat formation by airplanes.
Mor. sbor. 49 no.11:45-47 N '65.

(MISA 18:12)

LIAKUMOVICH, A.G.; GUNDIN, N.S., RUTMAN, G.I.; MAYTERYA, G.A.; MARCHALIA, K.F.

Improved process of butylene dehydrogenation in the synthetic rubber plant in Sterlitamak. Khim.pros. Al n..7:532-539 Jl 165.

(MIRA 18:8)

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- 1. GUNBIN, H. Ya.: BOCHKOVSKAYA, L. V.: RING, V. M.
- 2. USSR (600)
- 4. Krivoi Rog Mining Engineering
- 7. Experience with the work of all-around brigades in the mines of the Krivoi Rog Basin. Gor. 3hur. No. 11, 1952.

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CUNBIN, N.Ya.; GORBATOV, V.S., gornyy inzh.; MAKEYEV, A.A.

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1. Glavnyy inzh. rudnika im. Kirova Krivorozhskogo basseyna (for Gunbin). 2. Nauchno-issledovatel skiy gornorudnyy institut (for Gorbatov). 3. Glavnyy inzh. shakhty im. Ordzhonikidze Krivorozhskogo basseyna (for Makeyev).

(Scrapers)

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Increasing labor productivity at the Kirov mine. Met. i
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(Krivoy Rog Basin--Iron mines and mining--Labor productivity)

GUNBIN, N.Ya., inzh.; VEKSEL'MAN, V.M., inzh.; MIKHAYLENKO, F.K., inzh.

Rapid upraise mining at the "Severnaia" Mine of the Kirov
Mining Administration. Met.i gornorud.prom. no.5180-82 S-0
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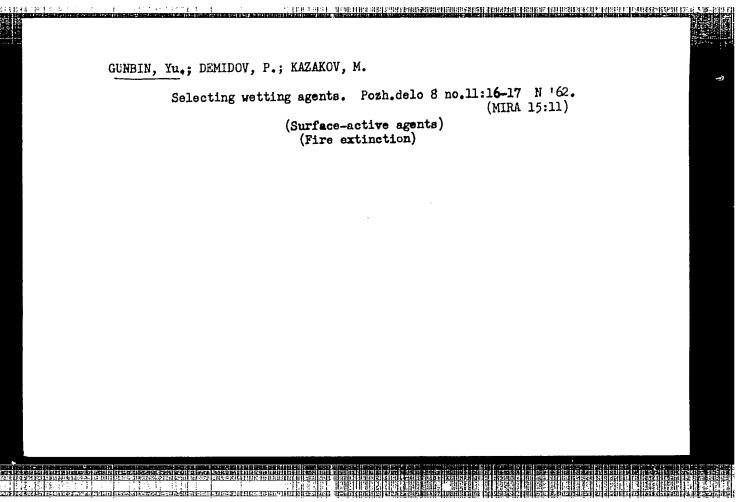
(Krivoy Rog Basin-Iron mines and mining)

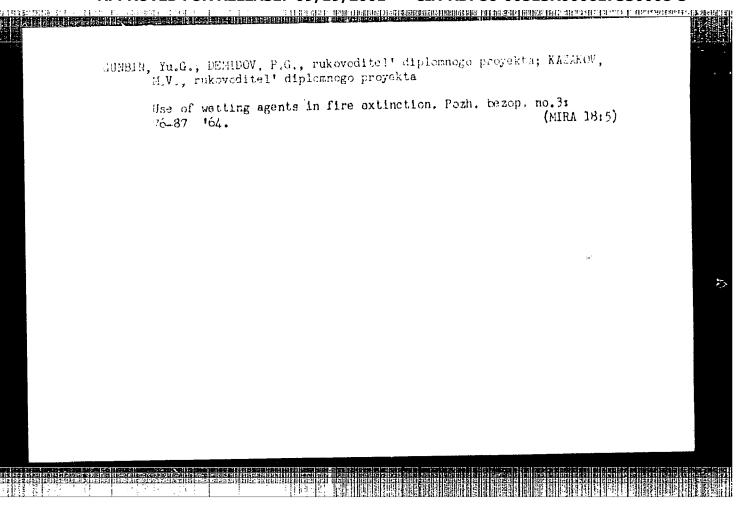
GUNBIN, N.Ya., gornyy inzh.; KOSHELENKO, V.M., gornyy inzh.

Growth of labor productivity at the Kirov Mine. Gor. zhur.
no.5e12-14 My '64.

1. Rudnik im. Kirova, Rog.

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Evaluation of functional cardiac state of physical exercise and athletics; electrocardiographic observations. Klin. med., Moskva 29 no.7:43-48 July 1951. (CIML 21:1)

1. Of the Faculty Therapeutic Clinic, First Leningrad Medical Institute imeni Academician I. P. Pavlov and of the Leningrad Scientific-Research Institute of Physical Culture.

